

SEQUENCE LISTING

<110> The Board of Trustees-Leland Stanford Junior University
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Han, Arnold

<120> ANTIGEN DISCOVERY FOR T CELL RECEPTORS ISOLATED FROM PATIENT
TUMORS RECOGNIZING WILD-TYPE ANTIGENS AND POTENT PEPTIDE
MIMOTOPES

<130> STAN-1407W0

<150> US 62/476,575
<151> 2017-03-24

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<170> PatentIn version 3.5

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<223> synthetic polypeptide

<400> 253

Asp Met Glu Arg Ala Leu Met Asn Leu
1 5

<210> 254
<211> 9
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<213> Artificial sequence

<220>
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<400> 254

Asp Met Asp Thr Phe Gln Gly Gln Met
1 5

<210> 255
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 255

Lys Met Lys Lys Asn His Asp His Met
1 5

<210> 256
<211> 9
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<213> Artificial sequence

<220>
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<400> 256

Lys Met Arg Glu Met Pro Val Lys Met
1 5

<210> 257
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<220>
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<400> 257

Met Met Asp Phe Phe Asn Ala Gln Met
1 5

<210> 258
<211> 210
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 258

Gln Lys Val Thr Gln Ala Gln Thr Glu Ile Ser Val Val Glu Lys Glu
1 5 10 15

Asp Val Thr Leu Asp Cys Val Tyr Glu Thr Arg Asp Thr Thr Tyr Tyr
20 25 30

Leu Phe Trp Tyr Lys Gln Pro Pro Ser Gly Glu Leu Val Phe Leu Ile
35 40 45

Arg Arg Asn Ser Phe Asp Glu Gln Asn Glu Ile Ser Gly Arg Tyr Ser
50 55 60

Trp Asn Phe Gln Lys Ser Thr Ser Ser Phe Asn Phe Thr Ile Thr Ala
65 70 75 80

Ser Gln Val Val Asp Ser Ala Val Tyr Phe Cys Ala Leu Ser Glu Ala

85

90

95

Arg Gly Gly Ala Thr Asn Lys Leu Ile Phe Gly Thr Gly Thr Leu Leu
 100 105 110

Ala Val Gln Pro Asn Ile Gln Asn Pro Asp Pro Ala Val Tyr Gln Leu
 115 120 125

Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr Asp Phe
 130 135 140

Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val Tyr Ile
 145 150 155 160

Thr Asp Lys Cys Val Leu Asp Met Arg Ser Met Asp Phe Lys Ser Asn
 165 170 175

Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala Asn Ala
 180 185 190

Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser Pro Glu
 195 200 205

Ser Ser
 210

<210> 259
 <211> 241
 <212> PRT
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<220>
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<400> 259

Glu Ile Thr Gln Ser Pro Arg His Lys Ile Thr Glu Thr Gly Arg Gln
 1 5 10 15

Val Thr Leu Ala Cys His Gln Thr Trp Asn His Asn Asn Met Phe Trp

20

25

30

Tyr Arg Gln Asp Leu Gly His Gly Leu Arg Leu Ile His Tyr Ser Tyr
 35 40 45

Gly Val Gln Asp Thr Asn Lys Gly Glu Val Ser Asp Gly Tyr Ser Val
 50 55 60

Ser Arg Ser Asn Thr Glu Asp Leu Pro Leu Thr Leu Glu Ser Ala Ala
 65 70 75 80

Ser Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser Ser Arg Asp Thr Val
 85 90 95

Asn Thr Glu Ala Phe Phe Gly Gln Gly Thr Arg Leu Thr Val Val Glu
 100 105 110

Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser
 115 120 125

Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala
 130 135 140

Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly
 145 150 155 160

Lys Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Pro Leu Lys Glu
 165 170 175

Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu Ser Ser Arg Leu Arg
 180 185 190

Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln
 195 200 205

Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg
 210 215 220

Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala
225 230 235 240

Asp

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<211> 241
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 260

Glu Ile Thr Gln Ser Pro Arg His Lys Ile Thr Glu Thr Gly Arg Gln
1 5 10 15

Val Thr Leu Ala Cys His Gln Thr Trp Asn His Asn Asn Met Phe Trp
20 25 30

Tyr Arg Gln Asp Leu Gly His Gly Leu Arg Leu Ile His Tyr Ser Tyr
35 40 45

Gly Val Gln Asp Thr Asn Lys Gly Glu Val Ser Asp Gly Tyr Ser Val
50 55 60

Ser Arg Ser Asn Thr Glu Asp Leu Pro Leu Thr Leu Glu Ser Ala Ala
65 70 75 80

Ser Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser Ser Arg Asp Phe Val
85 90 95

Ser Asn Glu Gln Tyr Phe Gly Pro Gly Thr Arg Leu Thr Val Thr Glu
100 105 110

Asp Leu Lys Asn Val Phe Pro Pro Glu Val Ala Val Phe Glu Pro Ser
115 120 125

Glu Ala Glu Ile Ser His Thr Gln Lys Ala Thr Leu Val Cys Leu Ala
130 135 140

Thr Gly Phe Tyr Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly
145 150 155 160

Lys Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Pro Leu Lys Glu
165 170 175

Gln Pro Ala Leu Asn Asp Ser Arg Tyr Ala Leu Ser Ser Arg Leu Arg
180 185 190

Val Ser Ala Thr Phe Trp Gln Asn Pro Arg Asn His Phe Arg Cys Gln
195 200 205

Val Gln Phe Tyr Gly Leu Ser Glu Asn Asp Glu Trp Thr Gln Asp Arg
210 215 220

Ala Lys Pro Val Thr Gln Ile Val Ser Ala Glu Ala Trp Gly Arg Ala
225 230 235 240

Asp

<210> 261
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<220>
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<400> 261

Cys Ala Leu Ser Glu Ala Arg Gly Gly Ala Thr Asn Lys Leu Ile Phe
1 5 10 15

<210> 262
<211> 14
<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 262

Cys Ala Ser Ser Arg Asp Thr Val Asn Thr Glu Ala Phe Phe
1 5 10

<210> 263

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 263

Cys Ala Ser Ser Arg Asp Phe Val Ser Asn Glu Gln Tyr Phe
1 5 10

<210> 264

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 264

Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 265

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 265

Ala Leu Asp Pro His Ser Gly His Phe Val

1 5 10

<210> 266
<211> 10
<212> PRT
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<220>
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<222> (10)..(10)
<223> Xaa at position 10 is HLA-A*02:01.

<400> 266

Met Met Asp Phe Phe Asn Ala Gln Met Xaa
1 5 10

<210> 267
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 267

Glu Ala Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 268
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 268

Ala Leu Leu Glu Thr Pro Ser Leu Leu Leu
1 5 10

<210> 269
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 269

Ala	Leu	Asp	Ser	Arg	Ser	Glu	His	Phe	Met
1				5					10

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<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 270

Glu	Tyr	Gly	Val	Ser	Tyr	Glu	Trp
1				5			

<210> 271
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 271

Glu	Met	Gly	Val	Ser	Tyr	Glu	Met
1				5			

<210> 272
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 272

Leu Leu Glu Asp Leu Asp Trp Asp Val
1 5

<210> 273

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 273

Asn Met Glu Tyr Met Thr Trp Asp Val
1 5

<210> 274

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 274

Thr Met Glu Thr Ile Asp Trp Lys Val
1 5

<210> 275

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 275

Val Leu Glu Glu Val Asp Trp Leu Ile
1 5

<210> 276

<211> 9
<212> PRT
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<220>
<223> synthetic polypeptide

<400> 276

Lys Leu Glu Gln Leu Asp Trp Thr Val
1 5

<210> 277
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<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 277

Thr Leu Glu Glu Leu Asp Trp Cys Leu
1 5

<210> 278
<211> 9
<212> PRT
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<220>
<223> synthetic polypeptide

<400> 278

Asn Val Glu Tyr Tyr Asp Ile Lys Leu
1 5

<210> 279
<211> 9
<212> PRT
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<220>
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<400> 279

Met Met Asp Phe Phe Asn Ala Gln Met
1 5

<210> 280
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<212> PRT
<213> Artificial sequence

<220>
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<400> 280

Val Leu Asp Phe Gln Gly Gln Leu
1 5

<210> 281
<211> 10
<212> PRT
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<220>
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<220>
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<222> (10)..(10)
<223> Xaa at position 10 is HLA-A*02:01

<400> 281

Met Met Asp Phe Phe Asn Ala Gln Met Xaa
1 5 10

<210> 282
<211> 10
<212> PRT
<213> Artificial sequence

<220>
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<220>
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<222> (10)..(10)

<223> Xaa at position 10 is HLA-A2.

<400> 282

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<210> 283

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 283

Ser	Met	Leu	Gly	Ile	Gly	Ile	Val	Pro	Val
1				5					10

<210> 284

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 284

Ser	Met	Ala	Gly	Ile	Gly	Ile	Val	Asp	Val
1				5					10

<210> 285

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 285

Asn	Met	Gly	Gly	Leu	Gly	Ile	Met	Pro	Val
1				5					10

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<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 286

Asn	Leu	Ser	Asn	Leu	Gly	Ile	Leu	Pro	Val
1			5					10	

<210> 287
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 287

Ser	Met	Leu	Gly	Ile	Gly	Ile	Tyr	Pro	Val
1			5					10	

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<212> PRT
<213> Artificial sequence

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<400> 288

Thr	Met	Ala	Gly	Ile	Gly	Val	His	Val	Val
1			5					10	

<210> 289
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<212> PRT
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<220>
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<400> 289

Ser Met Ala Gly Ile Gly Thr Leu Val Val
1 5 10

<210> 290

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 290

Ser Met Ser Gly Leu Gly Ile Leu Pro Met
1 5 10

<210> 291

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 291

Ser Met Ala Gly Ile Gly Ile Val Pro Val
1 5 10

<210> 292

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 292

Ser Met Leu Gly Ile Gly Ile Val Asp Val
1 5 10

<210> 293

<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 293

Asn	Met	Ala	Gly	Ile	Gly	Met	Gly	Thr	Val
1				5					10

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<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 294

Ser	Met	Leu	Gly	Ile	Gly	Ile	Leu	Pro	Val
1				5					10

<210> 295
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<220>
<223> synthetic polypeptide

<400> 295

Ser	Leu	Ser	Gly	Ile	Gly	Ile	Ser	Ala	Val
1				5					10

<210> 296
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 296

Asp Leu Ala Gly Leu Gly Leu Tyr Pro Val
1 5 10

<210> 297
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 297

Asn Met Ala Gly Ile Gly Ile Ile Gln Val
1 5 10

<210> 298
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 298

Asn Met Gly Gly Leu Gly Ile Leu Pro Val
1 5 10

<210> 299
<211> 10
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<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 299

Ser Met Ala Gly Ile Gly Ile Tyr Pro Val
1 5 10

<210> 300
<211> 10
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<400> 300

Asn	Leu	Ser	Asn	Leu	Gly	Ile	Val	Pro	Val
1				5					10

<210> 301

<211> 10

<212> PRT

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<220>

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<400> 301

Ile	Met	Leu	Gly	Ile	Gly	Ile	Asp	Thr	Leu
1				5					10

<210> 302

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 302

Asn	Leu	Ser	Asn	Leu	Gly	Ile	Met	Pro	Val
1				5					10

<210> 303

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 303

Ser Met Leu Gly Ile Gly Ile Val Leu Val

1 5 10

<210> 304
<211> 10
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<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 304

Ser Met Ala Gly Ile Gly Val His Val Val
1 5 10

<210> 305
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 305

Asn Met Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 306
<211> 10
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<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 306

Met Met Ala Gly Ile Gly Ile Val Asp Val
1 5 10

<210> 307
<211> 10
<212> PRT
<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 307

Asn Met Gly Gly Leu Gly Ile Val Pro Val
1 5 10

<210> 308

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 308

Ser Met Leu Gly Ile Lys Ile Val Pro Val
1 5 10

<210> 309

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 309

Glu Leu Ser Gly Leu Gly Ile Gln Thr Val
1 5 10

<210> 310

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 310

Ser Met Leu Gly Ile Gly Ile Leu Pro Met
1 5 10

<210> 311
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 311

Ser Met Ala Gly Ile Gly Ile Leu Pro Val
1 5 10

<210> 312
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 312

Ser Met Leu Gly Ile Gly Ile Val Pro Val
1 5 10

<210> 313
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 313

Glu Ala Ala Gly Ile Gly Ile Leu Thr Val
1 5 10

<210> 314
<211> 10
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<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 314

Thr Leu Gly Gly Ile Gly Leu Val Thr Val
1 5 10

<210> 315

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 315

Ile Leu Leu Gly Ile Gly Ile Tyr Ala Leu
1 5 10

<210> 316

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 316

Ile Leu Ser Gly Ile Gly Val Ser Gln Val
1 5 10

<210> 317

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 317

Ile Met Gly Asn Leu Gly Leu Ile Ala Val
1 5 10

<210> 318

<211> 10
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<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 318

Met	Ala	Gly	Asn	Leu	Gly	Ile	Ile	Thr	Leu
1			5						10

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<212> PRT
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<400> 319

Ile	Met	Gly	Asn	Leu	Gly	Leu	Ile	Val	Leu
1			5						10

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<211> 10
<212> PRT
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<223> synthetic polypeptide

<400> 320

Ile	Leu	Ala	Gly	Leu	Gly	Thr	Ser	Leu	Leu
1			5						10

<210> 321
<211> 10
<212> PRT
<213> Artificial sequence

<220>
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<400> 321

Glu Leu Gly Gly Leu Lys Ile Ser Thr Leu
1 5 10

<210> 322
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 322

Met Met Trp Asp Arg Gly Met Gly Leu Leu
1 5 10

<210> 323
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 323

Ile Met Glu Asp Val Gly Trp Leu Asn Val
1 5 10

<210> 324
<211> 10
<212> PRT
<213> Artificial sequence

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<400> 324

Met Met Trp Asp Arg Gly Leu Gly Met Met
1 5 10

<210> 325
<211> 10
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<220>

<223> synthetic polypeptide

<400> 325

Ile	Leu	Glu	Asp	Arg	Gly	Phe	Asn	Gln	Val
1				5					10

<210> 326

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<212> PRT

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<223> synthetic polypeptide

<400> 326

Leu	Met	Phe	Asp	Arg	Gly	Met	Ser	Leu	Leu
1				5					10

<210> 327

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<400> 327

Leu	Met	Leu	Asp	Phe	Asp	Gly	Ser	Leu	Leu
1				5					10

<210> 328

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 328

Ile Met Glu Asp Arg Gly Ser Leu Asn Met

1 5 10

<210> 329
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 329

Leu Met Asn Asp Met Gly Phe His Ile Val
1 5 10

<210> 330
<211> 10
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<213> Artificial sequence

<220>
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<400> 330

Ile Met Glu Asp Arg Gly Ser Gly Glu Met
1 5 10

<210> 331
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<212> PRT
<213> Artificial sequence

<220>
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<400> 331

Leu Met Trp Asp Val Gly Leu Ser Ile Met
1 5 10

<210> 332
<211> 10
<212> PRT
<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 332

Ser	Met	Trp	Asp	Arg	Gly	Thr	Phe	Ile	Met
1				5					10

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<212> PRT

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<220>

<223> synthetic polypeptide

<400> 333

Leu	Met	Leu	Asp	Arg	Gly	Ser	Pro	Asn	Met
1				5					10

<210> 334

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 334

Ile	Met	Phe	Asp	Arg	Gly	Ile	Gly	Ile	Met
1				5					10

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<212> PRT

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<220>

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<400> 335

Ile	Leu	Phe	Asp	Arg	Gly	Met	Asn	Leu	Met
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<400> 336

Met	Leu	Leu	Asp	Arg	Gly	Leu	Ser	Leu	Met
1				5					10

<210> 337
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<220>
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<400> 337

Ile	Met	Glu	Asp	Arg	Gly	Ser	Leu	Ile	Leu
1				5					10

<210> 338
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<400> 338

Leu	Met	Arg	Asp	Tyr	Gln	Leu	Leu	Gln	Val
1				5					10

<210> 339
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<212> PRT
<213> Artificial sequence

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<400> 339

Leu Met Phe Asp Arg Gly Met Ser Val Leu
1 5 10

<210> 340

<211> 10

<212> PRT

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<220>

<223> synthetic polypeptide

<400> 340

Leu Met Glu Asp Ile Gly Arg Glu Leu Val
1 5 10

<210> 341

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 341

Ile Leu Glu Asp Arg Gly Met Gly Leu Leu
1 5 10

<210> 342

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 342

Met Met Asp Gln Phe Asn Gly Leu Met Met
1 5 10

<210> 343

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<400> 343

Ile	Met	Trp	Asp	Arg	Asp	Tyr	Gly	Val	Met
1				5					10

<210> 344
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<212> PRT
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<220>
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<400> 344

Met	Met	Trp	Asp	Arg	Gly	Phe	Asn	Gln	Val
1				5					10

<210> 345
<211> 10
<212> PRT
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<220>
<223> synthetic polypeptide

<400> 345

Ile	Met	Ser	Met	Ser	Val	Ser	Asn	Tyr	Leu
1				5					10

<210> 346
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 346

Ala Met Gly Asp Gly Ser Tyr Leu Leu Met
1 5 10

<210> 347
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 347

Ser Met Trp Asp Arg Gly Met Gly Leu Leu
1 5 10

<210> 348
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 348

Met Met Glu Asn Arg Gly Ser Gly Ala Leu
1 5 10

<210> 349
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 349

Leu Met Trp Asp Ser Gly Leu Glu Leu Met
1 5 10

<210> 350
<211> 10
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<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 350

Ser	Met	Trp	Asp	Arg	Gly	Leu	Gly	Met	Met
1				5					10

<210> 351

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

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Leu	Met	Trp	Asp	Val	Gly	Trp	Leu	Asn	Val
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Met Met Trp Asp Arg Gly Ile Val Pro Val

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Ile Leu Phe Asp Arg Gly Met Asn Leu Met
1 5 10

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Met Leu Trp Asp Val Gln Ser Gly Gln Met
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Leu Leu Leu Gln Val Gly Leu Ser Leu Leu
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<400> 357

Ser Leu Glu Asp Val Val Met Leu Asn Val
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Met Leu Glu Asp Arg Asp Leu Phe Val Met
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Met Leu Glu Asp Met Ser Leu Gly Ile Met
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Ser Leu Glu Asn Arg Gly Leu Ser Met Leu
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Val Met Ile Ser His Glu Asn Phe Met
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Thr Met Gln Ser His Glu Val Met Leu
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Thr Met Gln Ser His Glu Asn Phe Met
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Val Met Gln Ser His Glu Val Met Leu
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Val Met Ile Ser His Glu Ile Phe Leu
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Ile Met Thr Ser His Glu Val Met Leu
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Ile Met Thr Ser His Glu Val Met Met
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Val Met Glu Ser His Asp Val Phe Met
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Ile Met Asn Ser His Glu Val Met Met
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Ser Met Asn Ser His Glu Val Met Met
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Lys Met Asn Ser His Glu Val Met Met
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Ala Met Gln Gly His Glu Tyr Phe Leu
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Ala Met Gln Gly His Glu Ile Phe Leu
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Val Leu Gln Ser His Glu Val Ser Met

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Ala Met Gln Ser His Glu Val Thr Leu
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Leu Met Ser Gly Asp Tyr Gln Phe Val
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Thr Met His Asn His Glu Val Met Met
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Val Met His Asn His Glu Val Met Met
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Thr Met Thr Gly His Glu Val Phe Met
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Thr Met Thr Gly His Glu Val Phe Val
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Val Met Gln Gly His Glu Ser Phe Leu
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Val Met Ile Ser His Glu Val Met Leu
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Thr Met Thr Gly His Glu Val Met Leu
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Ser Met Val Gly Met Glu His Ser Met
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Ala Met Gln Gly His Glu His Phe Met
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Val Met Glu Gly Asp Tyr Trp Phe Leu
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Ser Met Gln Ser His Glu Trp Met Leu
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<400> 392

Tyr Met Gln Thr His Glu Ser Phe Met
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Val	Met	Asn	Gly	Asp	Ser	Gly	Thr	Phe	Leu
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Tyr	Met	Ala	Val	Arg	Ser	Glu	Asn	Phe	Met
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Ile Met Asp Ser Lys Ser Glu His Phe Met
1 5 10

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Ile Met Asp Ser Arg Glu Glu Val Phe Val
1 5 10

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Ile Met Asp Ser Arg Ser Glu His Phe Met
1 5 10

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Gly Met Asp Ser Arg Ala Glu Val Phe Met
1 5 10

<210> 400
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Arg	Leu	Asp	Gly	Gln	Asp	Thr	Lys	Phe	Met
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Leu Met Asp Ser Arg Ser Glu His Phe Met

1 5 10

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Ile Met Asn Ser Arg Ser Glu Leu Phe Leu
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Met Met Asn Val Arg Ser Glu Leu Phe Val
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Thr Met Asn Val Arg Ser Glu Leu Phe Val
1 5 10

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Lys Met Asn Ser Arg Ser Glu Leu Phe Leu
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Thr Met Asn Val Arg Ser Glu His Phe Met
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Ser Met Asn Ser Arg Ser Glu Leu Phe Leu
1 5 10

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Lys Met Asn Ser Arg Ser Glu His Phe Met
1 5 10

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Val	Met	Gln	Gly	His	Asp	Ala	Ser	Phe	Leu
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Lys	Met	Asn	Ser	His	Ser	Gly	Thr	Phe	Leu
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Lys Met Asn Gly Lys Ser Glu Asp Phe Met
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<210> 415

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Asp Met Asp Asn Arg Leu Asp Arg Asp Met
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Ile Met Asp Ser Lys Ser Glu Ile Phe Leu
1 5 10

<210> 417

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<400> 417

Ser Met Asn Ser His Ser Gly Thr Phe Leu
1 5 10

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Ser	Met	Asn	Ser	Arg	Glu	Glu	His	Phe	Met
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Ile	Met	Asn	Ser	His	Ser	Gly	Thr	Phe	Leu
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Ala Met Asp Ser Lys Ser Glu Asn Phe Leu
1 5 10

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Ile Met Asp Ser Arg Ala Asp Met Phe Val
1 5 10

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Ser Met Asn Ser Arg Glu Glu Val Phe Val
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Lys Met Asn Ser Arg Glu Glu Val Phe Val
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Ala	Leu	Asp	Ser	Arg	Ser	Glu	His	Phe	Met
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Ala	Met	Asp	Ser	Arg	Ser	Glu	His	Phe	Met
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Ala	Met	Asp	Ser	Arg	Ala	Asp	Met	Phe	Val
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Leu Met Asp Ser Arg Ser Gln Ile Phe Val

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Gly Met Thr Ser Arg Ser Asp Tyr Met Val
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Val Met Asn Ser Arg Ser Glu His Phe Met
1 5 10

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Val Met Asn Ser Arg Ser Asp Trp Phe Leu
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Arg	Met	Asp	Ser	Arg	Ser	Gln	Asp	Phe	Val
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Arg	Met	Glu	Ala	His	Ser	Ser	His	Phe	Val
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Thr	Leu	Met	Ser	Arg	Ser	Asp	Leu	Phe	Leu
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Ile	Leu	Asn	Ser	Arg	Asp	Glu	Ala	Met	Met
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Ala	Leu	Asn	Ser	Arg	Asp	Glu	Ala	Met	Met
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Ala	Leu	Asp	Ser	Arg	Leu	Glu	Phe	Phe	Val
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Val	Met	Asp	Ser	Arg	Leu	Glu	Phe	Phe	Val
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Ala	Leu	Asp	Ser	Arg	Ser	Glu	Leu	Phe	Leu
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Ala	Met	Tyr	Ser	Asn	Ser	Asp	Phe	Met	Val
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Val	Met	Asp	Ser	Arg	Leu	Glu	His	Phe	Met
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Ser	Met	Asn	Ser	Arg	Ser	Glu	His	Phe	Met
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Ser	Met	Asn	Ser	Lys	Ser	Glu	Asn	Phe	Leu
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Val	Leu	Asp	Ser	Ser	Ser	Ser	Ser	Phe	Leu
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Ala Leu Asp Ser Arg Ser Glu Asn Phe Leu
1 5 10

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<400> 447

Ala Leu Asp Ser Lys Ser Glu Asn Phe Leu
1 5 10

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Ala Leu Asp Ser Arg Ser Glu Ile Phe Leu
1 5 10

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Ser Met Asn Ser Arg Ala Asp Met Phe Val
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Ser	Met	Tyr	Ser	Arg	Gln	Glu	Met	Met	Val
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Arg	Met	Trp	Ser	Arg	Ser	Glu	Asp	Met	Val
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Val	Leu	Arg	Ala	Arg	Ser	Asp	Val	Phe	Val
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Ala Leu Asp Ser Arg Glu Glu Val Phe Val

1 5 10

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Ser Met Asn Ser Arg Glu Glu Ile Phe Leu
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Ser Met Ser Gly Phe Ser Glu Ser Phe Val
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Ile Leu Ser Asn Arg Gly His Glu Val Phe Val
1 5 10

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Ile Leu Ser Asn Arg Gly His Glu Asn Phe Met
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Ile Leu Ser Asn Arg Gly His Asp Val Phe Met
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Ile Leu Ser Asn Arg Gly His Glu Ile Phe Leu
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Ile Leu Ser Asn Arg Gly His Glu Tyr Phe Leu
1 5 10

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Cys Ala Ser Ser Leu Gly Leu Glu Gln Phe Phe
1 5 10

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Cys Ala Ser Ser Leu Gly Gly Gly His Thr Glu Ala Phe Phe
1 5 10

<210> 463
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Cys Ala Ser Ser Leu Val Asn Gly Leu Gly Tyr Thr Phe
1 5 10

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Cys	Ala	Thr	Ser	Arg	Asp	Arg	Gly	Gln	Asp	Glu	Lys	Leu	Phe	Phe
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Cys	Ala	Ser	Ser	Ala	Asp	Thr	Gly	Val	Asn	Gln	Pro	Gln	His	Phe
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Cys	Ala	Ser	Ser	Arg	Asp	Thr	Val	Asn	Thr	Glu	Ala	Phe	Phe
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Cys	Ser	Ala	Arg	Asp	Tyr	Gln	Gly	Ser	Gln	Pro	Gln	His	Phe
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<400> 468

Cys	Ser	Ala	Arg	Asp	Tyr	Gln	Gly	Ser	Gln	Pro	Gln	His	Phe
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<210> 469
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 469

Cys	Ala	Ser	Ser	Ala	Asp	Thr	Gly	Val	Asn	Gln	Pro	Gln	His	Phe
1				5					10					15

<210> 470
<211> 12
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 470

Cys	Ala	Gly	Gly	Gly	Gly	Ala	Asp	Gly	Leu	Thr	Phe
1				5					10		

<210> 471
<211> 15
<212> PRT
<213> Artificial sequence

<220>
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<400> 471

Cys Ala Leu Ser Glu Ala Glu Ala Ala Gly Asn Lys Leu Thr Phe
1 5 10 15

<210> 472
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 472

Cys Ala Leu Ser Glu Ala Gly Met Asp Ser Asn Tyr Gln Leu Ile Trp
1 5 10 15

<210> 473
<211> 18
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 473

Cys Ala Met Arg Glu Gly Arg Tyr Ser Gly Ala Gly Ser Tyr Gln Leu
1 5 10 15

Thr Phe

<210> 474
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 474

Cys Val Val Thr Glu Thr Asn Ala Gly Lys Ser Thr Phe
1 5 10

<210> 475
<211> 16
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 475

Cys	Ala	Leu	Ser	Glu	Ala	Arg	Gly	Gly	Ala	Thr	Asn	Lys	Leu	Ile	Phe
1				5					10					15	

<210> 476
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<220>
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<400> 476

Cys	Ala	Val	Asn	Ser	Gly	Asn	Thr	Gly	Lys	Leu	Ile	Phe
1				5					10			

<210> 477
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<213> Artificial sequence

<220>
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<400> 477

Cys	Ala	Val	Pro	Phe	Leu	Tyr	Asn	Gln	Gly	Gly	Lys	Leu	Ile	Phe
1				5					10					15

<210> 478
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<400> 478

Cys Ala Val Asn Asp Phe Asn Lys Phe Tyr Phe
1 5 10

<210> 479

<211> 16

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 479

Cys Ala Ser Ser Gln Gly Val Gly Gln Phe Lys Asn Thr Gln Tyr Phe
1 5 10 15

<210> 480

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 480

Cys Ala Ser Ser Leu Ser Gly Arg Gln Gly Gly Ser Tyr Glu Gln Tyr
1 5 10 15

Phe

<210> 481

<211> 15

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 481

Cys Ala Ser Ser Ser Ser Gly Gly Leu Val Asp Thr Gln Tyr Phe

1 5 10 15

<210> 482
<211> 12
<212> PRT
<213> Artificial sequence

<220>
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<400> 482

Cys Ala Ser Met Gly Arg Ser Tyr Gly Tyr Thr Phe
1 5 10

<210> 483
<211> 16
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<213> Artificial sequence

<220>
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<400> 483

Cys Ala Ser Ser Leu Glu Thr Gly Thr Ala Ile Tyr Glu Gln Tyr Phe
1 5 10 15

<210> 484
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<213> Artificial sequence

<220>
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<400> 484

Cys Ala Ser Ser Pro Ser Gly Leu Ala Gly Ser Asn Leu Gly Asn Glu
1 5 10 15

Gln Phe Phe

<210> 485

<211> 14
<212> PRT
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<220>
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<400> 485

Cys Ala Ser Ser Arg Ile Asp Ser Thr Asp Thr Gln Tyr Phe
1 5 10

<210> 486
<211> 15
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<213> Artificial sequence

<220>
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<400> 486

Cys Ala Ser Ser Ile Pro Arg Gly Ser Ser Gln Pro Gln His Phe
1 5 10 15

<210> 487
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<213> Artificial sequence

<220>
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<400> 487

Cys Ala Ile Lys Gly Gly Asp Arg Gly Val Asn Thr Glu Ala Phe Phe
1 5 10 15

<210> 488
<211> 13
<212> PRT
<213> Artificial sequence

<220>
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<400> 488

Cys Ser Ala Arg Leu Ala Ser Tyr Asn Glu Gln Phe Phe
1 5 10

<210> 489
<211> 14
<212> PRT
<213> Artificial sequence

<220>
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<400> 489

Cys Ala Ser Ser Arg Asp Phe Val Ser Asn Glu Gln Tyr Phe
1 5 10

<210> 490
<211> 13
<212> PRT
<213> Artificial sequence

<220>
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<400> 490

Cys Ala Val Glu Thr Ser Asn Thr Gly Lys Leu Ile Phe
1 5 10

<210> 491
<211> 12
<212> PRT
<213> Artificial sequence

<220>
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<400> 491

Cys Ala Ala Ser Ser Thr Gly Asn Gln Phe Tyr Phe
1 5 10

<210> 492
<211> 17
<212> PRT

<213> Artificial sequence

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<400> 492

Cys	Ala	Leu	Ser	Ala	Gly	Ala	Ser	Gly	Ala	Gly	Ser	Tyr	Gln	Leu	Thr
1				5					10					15	

Phe

<210> 493

<211> 15

<212> PRT

<213> Artificial sequence

<220>

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<400> 493

Cys	Ala	Leu	Met	Asn	Tyr	Gly	Gly	Ala	Thr	Asn	Lys	Leu	Ile	Phe
1				5					10					15

<210> 494

<211> 12

<212> PRT

<213> Artificial sequence

<220>

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<400> 494

Cys	Ala	Ala	Asp	Asn	Asn	Asn	Ala	Arg	Leu	Met	Phe
1				5					10		

<210> 495

<211> 15

<212> PRT

<213> Artificial sequence

<220>

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<400> 495

Cys	Ala	Leu	Ser	Ser	Arg	Gly	Ser	Thr	Leu	Gly	Arg	Leu	Tyr	Phe
1				5					10					15

<210> 496

<211> 14

<212> PRT

<213> Artificial sequence

<220>

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<400> 496

Cys	Leu	Val	Gly	Glu	Val	Gly	Thr	Ala	Ser	Lys	Leu	Thr	Phe
1				5					10				

<210> 497

<211> 13

<212> PRT

<213> Artificial sequence

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<400> 497

Cys	Ala	Val	Asp	Ser	Gly	Gly	Tyr	Asn	Lys	Leu	Ile	Phe
1				5					10			

<210> 498

<211> 15

<212> PRT

<213> Artificial sequence

<220>

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<400> 498

Cys	Ala	Met	Arg	Glu	Pro	Asn	Asn	Ala	Gly	Asn	Met	Leu	Thr	Phe
1				5					10					15

<210> 499

<211> 15
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<220>
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<400> 499

Cys	Ala	Val	Arg	Arg	Ala	Thr	Asp	Ser	Trp	Gly	Lys	Leu	Gln	Phe
1				5					10					15

<210> 500
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<400> 500

Cys	Ala	Leu	Ser	Glu	Ala	Arg	Gly	Gly	Ala	Thr	Asn	Lys	Leu	Ile	Phe
1				5					10						15

<210> 501
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<212> PRT
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<400> 501

Tyr	Leu	Ala	Pro	Gln	Glu	Ser	Tyr	Gly	Ala
1				5				10	

<210> 502
<211> 10
<212> PRT
<213> Artificial sequence

<220>
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<400> 502

Tyr Ala Ser Ser Tyr Ile Ile Leu Ala Met
1 5 10

<210> 503
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic polypeptide

<400> 503

Val Met Leu Gln Ile Ile Asn Ile Val Leu
1 5 10

<210> 504
<211> 10
<212> PRT
<213> Artificial sequence

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<400> 504

Val Leu Ser Trp Leu Leu Lys Tyr Lys Ile
1 5 10

<210> 505
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<212> PRT
<213> Artificial sequence

<220>
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<400> 505

Ser Val Leu Asn Tyr Phe Lys Pro Tyr Leu
1 5 10

<210> 506
<211> 10
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<400> 506

Ser	Leu	Met	Thr	Pro	Asn	Thr	Ile	Thr	Met
1				5					10

<210> 507

<211> 10

<212> PRT

<213> Artificial sequence

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<400> 507

Arg	Val	Leu	Ser	His	Asp	Ser	Ile	Phe	Ile
1				5					10

<210> 508

<211> 10

<212> PRT

<213> Artificial sequence

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<400> 508

Asn	Leu	Asn	Pro	Asn	Val	Asp	Pro	Gln	Val
1				5					10

<210> 509

<211> 10

<212> PRT

<213> Artificial sequence

<220>

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<400> 509

Leu Leu Gln Glu Glu Ala His Val Pro Leu

1 5 10

<210> 510
<211> 10
<212> PRT
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<400> 510

Leu Ile Tyr Glu Leu Tyr Val Ser Glu Leu
1 5 10

<210> 511
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<213> Artificial sequence

<220>
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<400> 511

Lys Thr Tyr Ile Ile Phe Phe Val Leu Val
1 5 10

<210> 512
<211> 10
<212> PRT
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<220>
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<400> 512

Lys Leu Tyr Gly Leu Asp Trp Ala Glu Leu
1 5 10

<210> 513
<211> 10
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<400> 513

Lys	Leu	Phe	Glu	Phe	Leu	Val	Tyr	Gly	Val
1				5					10

<210> 514

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<400> 514

Ile	Val	Ala	Ala	Asp	Leu	Ile	Met	Thr	Leu
1				5					10

<210> 515

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<400> 515

Ile	Gln	Tyr	Leu	Glu	Leu	Asn	Arg	Leu	Val
1				5					10

<210> 516

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<400> 516

Ile	Gln	Val	Trp	Glu	Ala	Leu	Leu	Thr	Leu
1				5					10

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<400> 517

Ile Leu Ser Gly Gly Arg Thr Leu Gln Ile
1 5 10

<210> 518
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<220>
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<400> 518

His Val Met Leu Gln Ile Ile Asn Ile Val
1 5 10

<210> 519
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<400> 519

His Met Met Gly Phe Arg Thr Gln Glu Val
1 5 10

<210> 520
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<400> 520

His	Ile	Tyr	Ile	Gly	Ile	His	Met	Cys	Val
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<400> 521

Gly	Met	Tyr	Ala	Ser	Ser	Tyr	Ile	Ile	Leu
1				5					10

<210> 522

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<400> 522

Gly	Leu	Leu	Pro	Val	Leu	Ser	Trp	Leu	Leu
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<210> 523

<211> 10

<212> PRT

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<400> 523

Phe	Asn	Gln	Leu	Ile	Tyr	Glu	Leu	Tyr	Val
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<210> 524

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Phe	Met	Thr	Lys	Ile	Asn	Asp	Leu	Glu	Val
1				5					10

<210> 525
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<400> 525

Phe	Leu	Val	Tyr	Gly	Val	Arg	Pro	Gly	Met
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<210> 526
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<400> 526

Phe	Leu	Pro	Val	Thr	Asp	Ala	Ser	Ser	Val
1				5					10

<210> 527
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<400> 527

Phe Ala Leu Leu Gln Glu Glu Ala His Val
1 5 10

<210> 528
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<400> 528

Phe Ala Leu Gly Asn Val Ile Ser Ala Leu
1 5 10

<210> 529
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<400> 529

Asp Leu Ser Tyr Thr Trp Asn Ile Pro Val
1 5 10

<210> 530
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<212> PRT
<213> Artificial sequence

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<400> 530

Ala Val Phe Tyr Thr Ile Leu Thr Pro Val
1 5 10

<210> 531
<211> 10
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<213> Artificial sequence

<220>

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<400> 531

Ala Thr Leu Asp Trp Ser Lys Asn Ala Val
1 5 10

<210> 532

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<212> PRT

<213> Artificial sequence

<220>

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<400> 532

Ala Ser Met Thr Gly Ile Val Tyr Ser Leu
1 5 10

<210> 533

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 533

Ala Leu Leu Glu Thr Pro Ser Leu Leu Leu
1 5 10

<210> 534

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic polypeptide

<400> 534

Ala Leu Asp Pro His Ser Gly His Phe Val

1 5 10

<210> 535
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<220>
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<400> 535

Ala Leu Ala Phe Thr Pro Val Glu Gln Val
1 5 10

<210> 536
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<213> Artificial sequence

<220>
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<400> 536
tgtgctctga gtgaggcgag gggtggtgct acaaacaagc tcatcttt 48

<210> 537
<211> 48
<212> DNA
<213> Artificial sequence

<220>
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<400> 537
tgtgctctga gtgaggcgcg gggcggtgct acaaacaagc tcatcttt 48

<210> 538
<211> 42
<212> DNA
<213> Artificial sequence

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<400> 538

tgcgccagca gccgggacac tgtaataact gaagctttct tt

42

<210> 539

<211> 42

<212> DNA

<213> Artificial sequence

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<400> 539

tgcgccagca gtcgggactt cgtgtccaac gagcagtact tc

42

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<212> PRT

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<220>

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<400> 540

Ser Met Gly Val Thr Tyr Glu Met
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<210> 541

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<220>

<223> synthetic polypeptide

<400> 541

Tyr Met Gly Val Ser Tyr Glu Met
1 5

<210> 542

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<400> 542

Tyr Met Gly Val Val Tyr Glu Met
1 5

<210> 543

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<400> 543

Lys Met Gly Val Thr Tyr Glu Met
1 5

<210> 544

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<400> 544

Phe Met Gly Val Thr Tyr Glu Met
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<210> 545

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<400> 545

Asn Met Glu Val Thr Tyr Glu Ile
1 5

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<400> 546

Phe Ile Thr Val Thr Glu Glu Ile
1 5

<210> 547
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<400> 547

His Ile Gln Val Thr Asn Glu Ile
1 5

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His Leu Ile Val Ser Tyr Glu Leu
1 5

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His Leu Gly Val Thr Lys Glu Leu
1 5

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<400> 550

Arg Leu Gly Val Thr Tyr Phe Val
1 5

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Tyr Leu Pro Val Thr Tyr His Ile
1 5

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Gly Leu Gly Gln Thr Tyr Glu Ile
1 5

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Glu Tyr Gly Val Ser Tyr Glu Trp
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Glu Tyr Gly Val Gln Asn Tyr Val
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<400> 555

Glu Met Gly Val Ser Tyr Glu Met
1 5

<210> 556

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<400> 556

Leu Met Asp Met His Asn Gly Gln Leu

1 5

<210> 557
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<400> 557

Arg Leu Asp Ala Met Asn Gly Gln Leu
1 5

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<400> 558

Arg Met Asp Tyr Asn Asn Met Gln Met
1 5

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<400> 559

Ser Met Asp Thr Phe Gln Gly Gln Met
1 5

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<400> 560

Gly Met Asp Tyr His Asn Gly His Leu

1 5

<210> 561

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Thr Met Asp Phe Tyr Gln Gly Gln Leu

1 5

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<400> 562

Lys Met Asp Tyr Phe Ser Gly Gln Leu

1 5

<210> 563

<211> 9

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<400> 563

Ser Met Asp Trp Phe Gln Gly Gln Met

1 5

<210> 564
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<400> 564

Leu Met Asp Tyr Trp Gln Gly Gln Leu
1 5

<210> 565
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<400> 565

Asn Met Met Trp Phe Gln Gly Gln Leu
1 5

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<400> 566

Val Leu Asp Leu Phe Gln Gly Gln Leu
1 5

<210> 567
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<400> 567

Met Met Asp Phe Phe Asn Ala Gln Met
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<400> 568

Leu Leu Asn Leu Asn Asn Gly Gln Leu
1 5

<210> 569

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<212> PRT

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<400> 569

Gln Met Asp Tyr Glu Glu Gly Gln Leu
1 5

<210> 570

<211> 9

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<400> 570

Gly Leu Ser Ser Gln Asn Gly Gln Leu
1 5

<210> 571

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<212> PRT
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<400> 571

Thr Leu His Tyr Tyr Glu Met His Leu
1 5

<210> 572
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<400> 572

Val Ile Asp Phe Leu Asn Asn Gln Leu
1 5

<210> 573
<211> 9
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<400> 573

Val Ile Asp Gln Leu Asn Gly Gln Leu
1 5

<210> 574
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<400> 574

Val Val Asp Phe Leu Lys Gly Gln Leu
1 5

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<400> 575

Leu Met Asp Met His Asn Gly Gln Leu
1 5

<210> 576
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Arg Leu Asp Ala Met Asn Gly Gln Leu
1 5

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Arg Met Asp Tyr Asn Asn Met Gln Met
1 5

<210> 578
<211> 9
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Ser Met Asp Thr Phe Gln Gly Gln Met
1 5

<210> 579

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<212> PRT

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<220>

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<400> 579

Gly Met Asp Tyr His Asn Gly His Leu
1 5

<210> 580

<211> 9

<212> PRT

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<400> 580

Thr Met Asp Phe Tyr Gln Gly Gln Leu
1 5

<210> 581

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Lys Met Asp Tyr Phe Ser Gly Gln Leu

1 5

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Phe Val Glu Asn Val Glu Trp Arg Val
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